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ହ Title:

JP11012207A2: IMPROVED CATALYST FOR HYDROGENATING AQ

MALEIC ACID CAPABLE OF BEING HYDROGENATED TO PRODUC

BUTANEDIOL

Country:

JP Japan

%Kind:

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§ Inventor:

JOHN G FRAY JR; THOMAS G ATTIG; JOHN R BUDGE;

STANDARD OIL CO:THE

News, Profiles, Stocks and More about this company

& Published / Filed:

Jan. 19, 1999 / June 11, 1997

8 Application

JP1997000154056

Number: 위PC Code: C07C 31/20; B01J 23/64; B01J 23/656; B01J 23/68; B01J 37/12;

C07C 29/149; C07B 61/00;

Priority Number:

June 11, 1997 JP19971997154056

8 Abstract:

PROBLEM TO BE SOLVED: To provide a process for

maximizing the production of 1,4-butanediol.

SOLUTION: This process for producing 1,4-butanediol contains a process for bringing a precursor capable of being hydrogenated into contact with a hydrogen-containing gas and a hydrogenation

catalyst to catalytically hydrogenate the precursor. The

hydrogenation catalyst contains at least one of the group VIII noble metals and at least one of rhenium, tungsten and molybdenum deposited on a carbon carrier. The carbon carrier is brought into contact with an oxidizing agent selected from nitric acid, hydrogen peroxide, sodium hypochlorite, ammonium persulfate and perchloric acid, before the metal is deposited.

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None

ଟ Forward References:

Γ.		Detent	Pub.Date	Inventor	Assignee	Title	
t	PDF			Khoury; Theodore A.	Advantest	Method and apparatus for connection between elem an integrated circuit	
-1							

8 Other Abstract Info:

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IMPROVED CATALYST FOR HYDROGENATING AQUEOUS MALEIC ACID CAP/... Page 2 of 2









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(71) Applicant: STANDARD OIL CO:Tl

(72) Inventor: JOHN G FRAY JR THOMAS G ATTIG JOHN R BUDGE

(74) Representative:

(54) IMPROVED CATALYST FOR HYDROGENATING AQUEOUS MALEIC ACID CAPABLE OF BEING HYDROGENATED TO PRODUCE 1,4-BUTANEDIOL

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a process for maximizing the production of 1,4-butanediol.

SOLUTION: This process for producing 1,4-butanediol contains a process for bringing a precursor capable of being hydrogenated into contact with a hydrogen-containing gas and a hydrogenation catalyst to catalytically hydrogenate the precursor. The hydrogenation catalyst contains at least one of the group VIII noble metals and at least one of rhenium, tungsten and molybdenum deposited on a carbon carrier. The carbon carrier is brought into contact with an oxidizing agent selected from nitric acid, hydrogen peroxide, sodium

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